Pumping Heart Model

Build a simplified model of a heart that pumps fake blood.

Kit contains:

- 1 clear cup
- 1 balloon
- 2 bendy straws
- 1 red bath tablet
- 1 lump of modeling clay

You will need: scissors, a sharp nail or pin for poking holes, a second cup or bowl, paper towels, and water.

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INSTRUCTIONS

Step 1. Fill the clear cup halfway full of water. Add the bath tablet and mix until it's red and gory like blood. (It's not *that* gory, but you can pretend like it is.)

Step 2. Cut the skinny end off the balloon. Stretch the now-widened balloon opening over the top of the cup. (**Note:** It helps to have a buddy hold the cup steady to prevent spilling.)

Step 3. Use your pin or nail to poke two holes in the balloon membrane about 1.5 inches apart. Go slowly and take your time. Don't worry if the holes are little. They will stretch.

Step 4. Push a bendy straw through each of the balloon holes. Again, take your time. They should fit snugly.

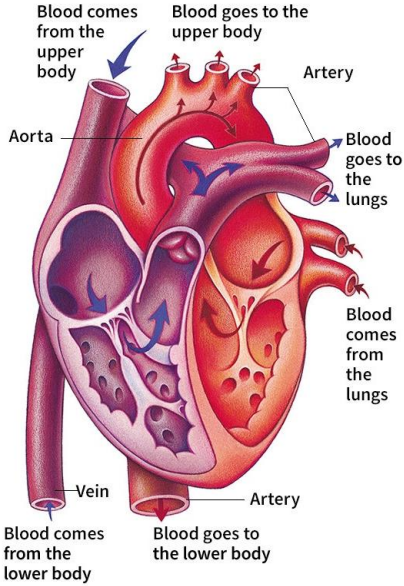
Step 5. Plug the end of one straw with the lump of clay. Bend the other straw end downward. Your simplified heart model is complete!

Make your heart model pump "blood"

Get your paper towels ready for mess containment. Position your extra cup or bowl under the unplugged straw. Press down on the balloon membrane between the straws and watch the fake blood pump into the cup.

LEARN ABOUT YOUR HEART

Your heart is made up of two pumps. One pump takes blood from your body and pushes it into your lungs, where it gets oxygen. Then the second pump takes the oxygen-rich blood from your lungs and pushes it out into your body to use. A pumping heart is what keeps you alive!



For a deep dive into how your heart works, check out the CrashCourse video, “The Heart, Part 1 – Under Pressure”:

https://youtu.be/X9ZZ6tcxArI

www.worldbookonline.com/kids/article?id=ar830876